

# INTERNATIONAL SEARCH REPORT

PCT/GB2004/004817

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 C12Q1/00 C12N9/06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, Sequence Search

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	<p>C.D. GWENIN ET AL.: "The development of a novel amperometric biosensor for the detection of nitro explosives"</p> <p>ABSTRACTS OF THE ANNUAL MEETING OF THE INTERNATIONAL SOCIETY OF BIOCHEMISTRY, 'Online!</p> <p>vol. 55, 19 September 2004 (2004-09-19), page 1, XP002314074</p> <p>Retrieved from the Internet: URL: <a href="http://www.google.de/search?q=cache:MNxd0Hp0AUgJ:www.isechemistry.gr/showabs.php%3FID%3DS4FP118+kalaji+nitroreductases&amp;hl=de">http://www.google.de/search?q=cache:MNxd0Hp0AUgJ:www.isechemistry.gr/showabs.php%3FID%3DS4FP118+kalaji+nitroreductases&amp;hl=de</a> 'retrieved on 2005-01-05!</p> <p>the whole document</p> <p style="text-align: center;">----- -/--</p>	1-27

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

4 March 2005

Date of mailing of the international search report

18/03/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
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Authorized officer

This is "

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PCT/GB2004/004817

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CHRIS GWENIN: "Poster 50: The Development of an Amperometric Enzyme Sensor for the Detection of Explosives" POSTERS OF THE 2003 YOUNGER EUROPEAN CHEMISTS' CONFERENCE, 'Online! 26 August 2003 (2003-08-26), pages 1-19, XP002314075 GRENOBLE 2003 Retrieved from the Internet: URL:http://www.setforeurope.org/grenoble/N ew%20Folder/posters.htm> 'retrieved on 2005-01-05! page 7	1-27
L	& E. WHARTON: "The third Younger European Chemists' Conference 26 to 29 August 2003 at the European Synchrotron Radiation Facility (ESRF), Grenoble, France" ANNOUNCEMENT, 'Online! 2003, page 1, GRENOBLE Retrieved from the Internet: URL:http://www.cineca.it/hosted/incm/instm /Young_Chemists_Conf_Grenoble_26-290803.ht m> 'retrieved on 2005-01-05!	
X	DATABASE Geneseq 'Online! 27 February 1996 (1996-02-27), "E. coli nitro reductase gene." XP002314077 retrieved from EBI accession no. GSN:AAQ92891 Database accession no. AAQ92891 the whole document	25
X	DATABASE EMBL 'Online! 2 October 2001 (2001-10-02), "Pseudomonas putida KT2440 flavoprotein (ecd) gene, complete cds." XP002314078 retrieved from EBI accession no. EM_PRO:AF417209 Database accession no. AF417209 the whole document	25
X	DATABASE EMBL 'Online! 21 August 2002 (2002-08-21), "Pseudomonas putida oxygen-insensitive NADPH nitroreductase (pnrA) gene, complete cds." XP002314079 retrieved from EBI accession no. EM_PRO:AF532911 Database accession no. AF532911 the whole document	25

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>X. REN ET AL.: "A new type of reusable piezoimmunosensor fabricated by a recombinant IgG-binding protein" ANALYST, 'Online! vol. 125, 24 February 2000 (2000-02-24), pages 669-671, XP002314076 Retrieved from the Internet: URL:<a href="http://pubs.rsc.org/ej/AN/2000/a909736h.pdf">http://pubs.rsc.org/ej/AN/2000/a909736h.pdf</a> page 669, r. h. col., paragraph 2; page 670, chapter headed "Concluding remarks" abstract</p>	
A	<p>GB 2 332 432 A (SECR DEFENCE) 23 June 1999 (1999-06-23)</p>	

# INTERNATIONAL SEARCH REPORT

Information on patent family members

PCT/GB2004/004817

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
GB 2332432	A	23-06-1999	AU	1494499 A	12-07-1999
			WO	9932636 A1	01-07-1999
			ZA	9811409 A	12-06-2000